

## Registration Form

Yes! Sign me up for:

- Blast Resistant Design (gwu)  
May 24 — 28, 2010

Price

\$1,900

Name

Company Name

Mailing Address

City, State Zip

Phone

Email

Method of Payment: (payable to BakerRisk)

- Check  Visa  
 Bill Me  MasterCard

PO #

Credit Card #

Exp. date

Signature

### Payment must be received before course begins.

To register, return this completed form with  
your payment to:

Erin Mott

Baker Engineering and Risk Consultants, Inc.

11000 Richmond Ave, Suite 350

Houston, TX 77042

Tel. (281) 822-3100

Fax. (281) 822-3199

[BakerRiskTraining@BakerRisk.com](mailto:BakerRiskTraining@BakerRisk.com)

Registrants will receive a written confirmation  
on receipt of payment. **Do not travel without  
a written confirmation!**

*Call for substitution and cancellation policies*

Baker Engineering and Risk Consultants, Inc.  
3330 Oakwell Court, Suite 100  
San Antonio, TX 78218-3024



## BLAST RESISTANT STRUCTURAL DESIGN

May 24—28, 2010  
(Monday - Friday)  
8:30 am - 4:30 pm

*Conducted by:*



Baker Engineering & Risk Consultants, Inc.  
Arlington, VA

[www.BakerRisk.com](http://www.BakerRisk.com)

*Held at:*



The George Washington University  
National Crash Analysis Center  
20101 Academic Way  
Ashburn, VA 20147

[www.ncac.gwu.edu/blastcourse/](http://www.ncac.gwu.edu/blastcourse/)

## Course Summary

### **BLAST RESISTANT STRUCTURAL DESIGN**

**May 24–28, 2010**

This course acquaints practicing engineers with procedures used in the analysis and design of structures subjected to loads from accidental and terrorist explosions. Explosion effects from vapor clouds and high explosives will be addressed. The course content will be based on commonly used references for blast resistant design including the U.S. Army Unified Facilities Criteria UFC 3-340-02 (TM5-1300), *Structures to Resist the Effects of Accidental Explosions (2008)* and the recently revised American Society of Civil Engineers (ASCE) publication, *Design of Blast Resistant Buildings in Petrochemical Plants® (2010)*, and *Structural Design for Physical Security® (1999)*.

## Course Location

### **THE GEORGE WASHINGTON UNIVERSITY**

20101 Academic Way  
Ashburn, VA 20147

## Course Fee

**\$1,900**

*Fee includes a copy of all course notes, design/analysis software, and lunch daily. Accommodations are not included.*

*Contact the George Washington University course coordinator for information on hotels and transportation.*

## Course Content

- Overview of Blast Effects and Security Criteria
- Introduction to Dynamic Response
- Dynamic Material Properties
- Allowable Response Criteria
- Steel Framed Structures
- Reinforced Concrete Structures
- Reinforced and Un-reinforced Masonry Structures
- Applications of Non-Linear Dynamic Finite Element Analysis
- Windows and Doors

The course is structured with lectures, example problems, and discussions. The SBEDS\* software analysis tool developed by BakerRisk for the U.S. Army CoE Protective Design Center will be used extensively during the course.

Participants will earn PDH (Professional Development Hours) accreditation issued by George Washington University (GW) upon completion of the course.

\*Single Degree of Freedom Blast Effects Design Spreadsheet

## BakerRisk Course Instructors

James W. Wesevich, P.E., S.E.

Donald E. Ketchum

Khaled El-Domiaty, P.E.  
(Course Manager)

## GW Course Coordinator

Pedro Silva, Ph.D.  
Associate Professor

Civil Engineering Department  
The George Washington University  
Tel. (202) 994-7446  
[silvap@gwu.edu](mailto:silvap@gwu.edu)

## About BakerRisk

Baker Engineering and Risk Consultants, Inc. (BakerRisk) is an internationally recognized engineering firm specializing in blast effects and the response of structures to dynamic loads. Since its formation in 1984, BakerRisk has been dedicated to advancing these technologies and enhancing its capabilities through research and development. The knowledge and experience of BakerRisk's engineering team has been applied to the analysis and design of a wide variety of petrochemical and explosives handling facilities.

The lectures for this course are based on BakerRisk's substantial experience, which includes a wide spectrum of testing, development, analysis, and design projects.

For further information on the course, please contact:

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Arlington, VA 22201  
Tel. (571) 482-3500  
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[keldomiaty@bakerrisk.com](mailto:keldomiaty@bakerrisk.com)

You can also visit our websites:



[www.BakerRisk.com](http://www.BakerRisk.com)



[www.ncac.gwu.edu/blastcourse/](http://www.ncac.gwu.edu/blastcourse/)